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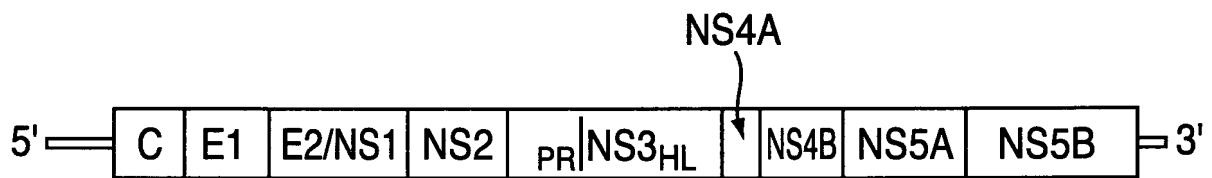
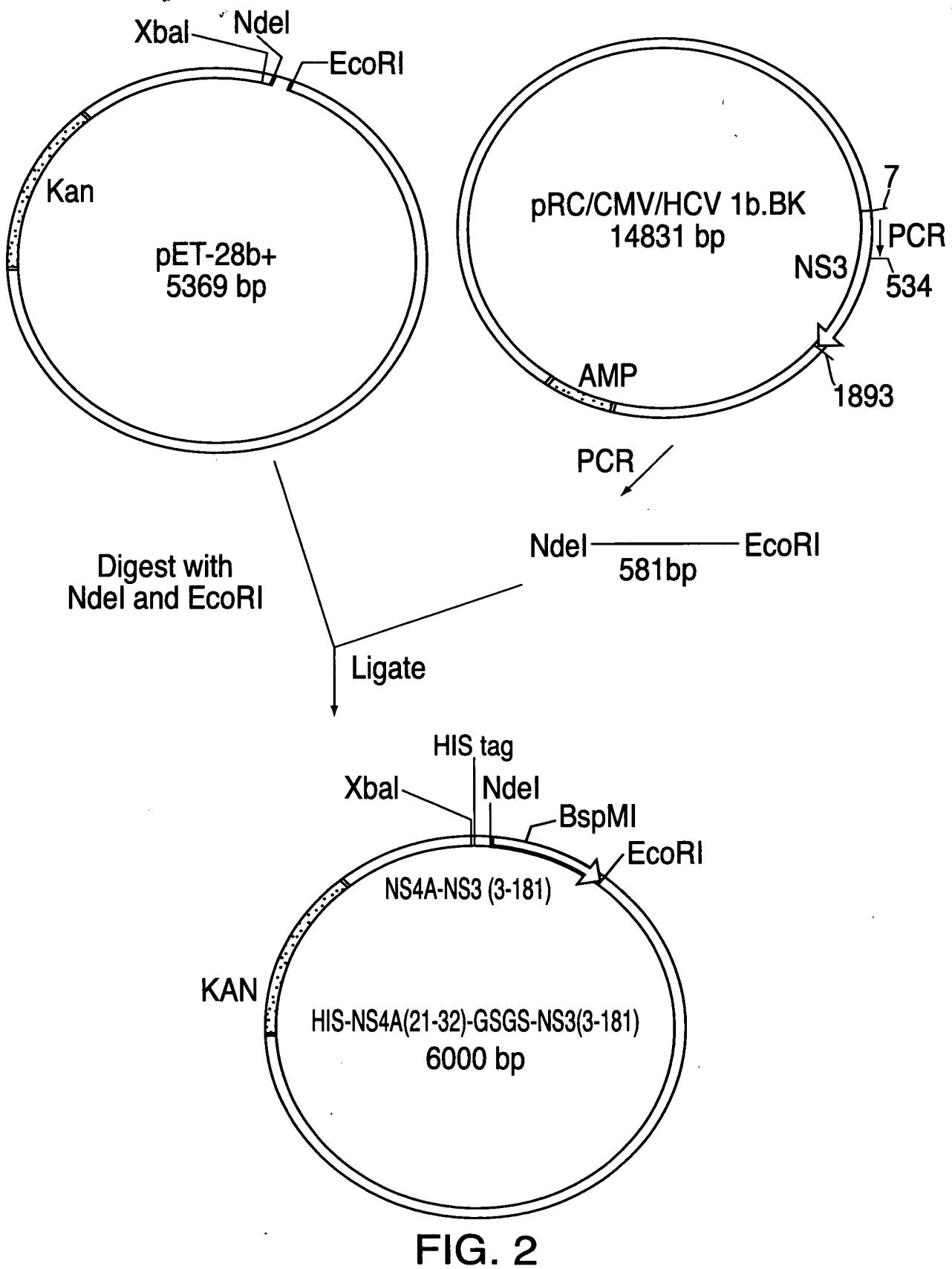


FIG. 1



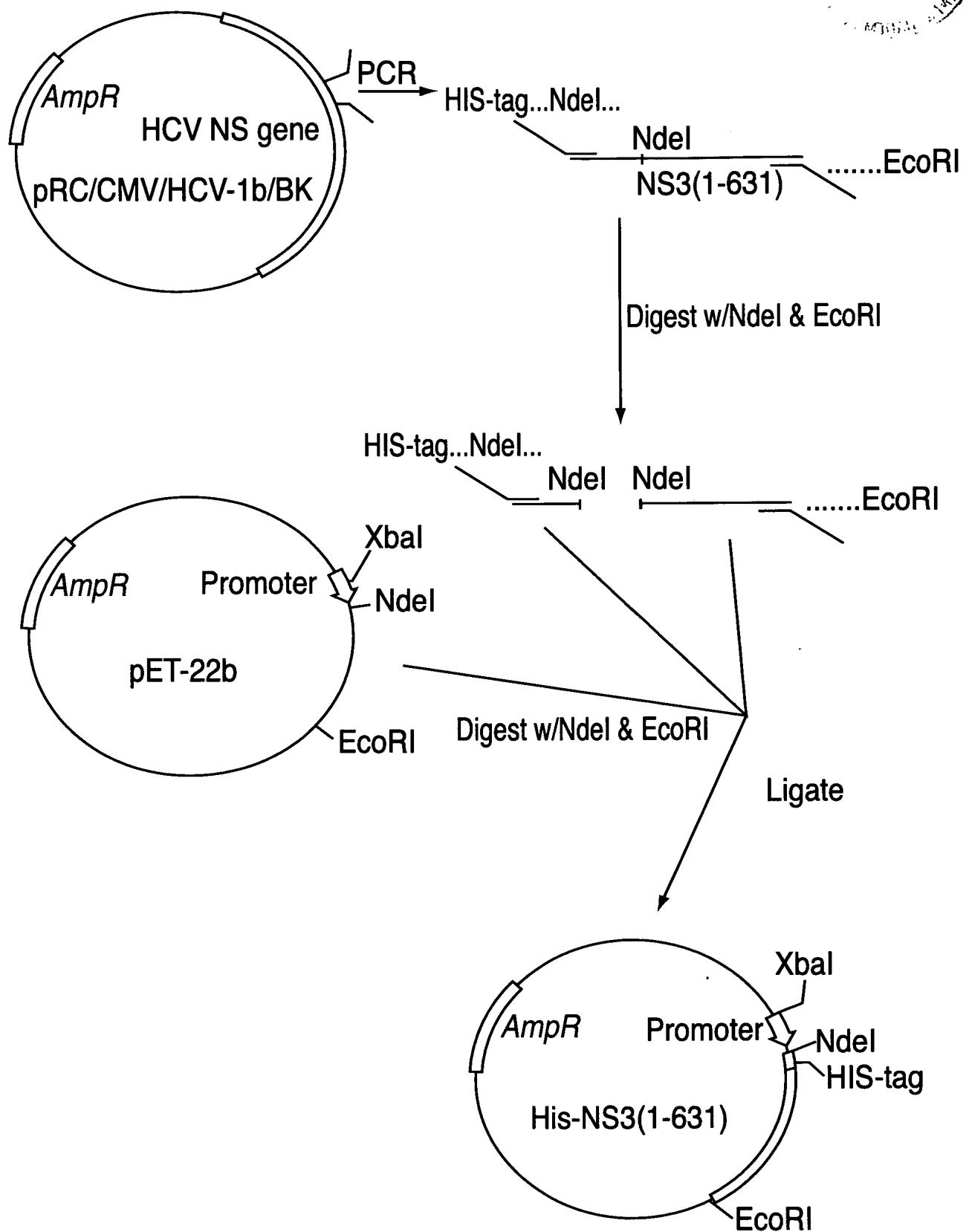


FIG. 3

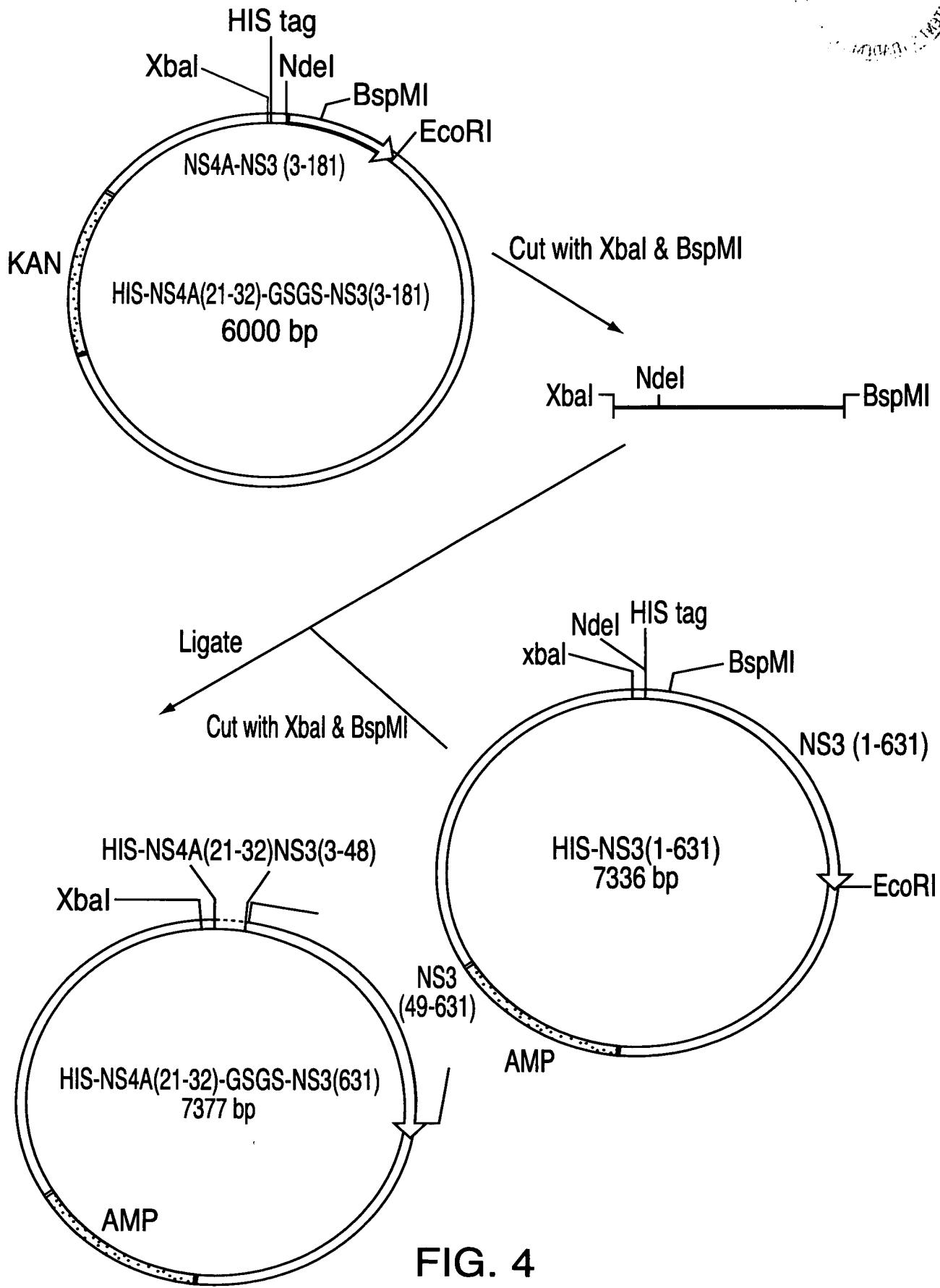
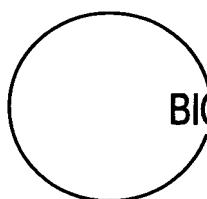


FIG. 4

SUBSTRATE ALONE



STREPTAVIDIN

BIOTIN-D-T-E-D-V-V-A-C-S-M-S-Y-T-W-T-G-K-Y



ANTI-PHOSPHOTYROSIN MAb

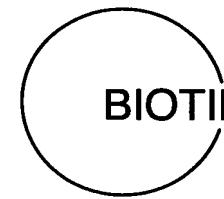
CARBOXYIMETHYLATED  
DEXTRAN MATRIX

LARGE MASS UNIT → LARGE SIGNAL

SENSOR CHIP

FIG. 5A

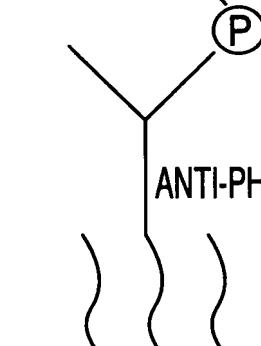
SUBSTRATE + ENZYME



STREPTAVIDIN

HCV PROTEASE

S-M-S-Y-T-W-T-G-K-Y



ANTI-PHOSPHOTYROSIN MAb

CARBOXYIMETHYLATED  
DEXTRAN MATRIX

REDUCED MASS UNIT → REDUCED SIGNAL

SENSOR CHIP

FIG. 5B

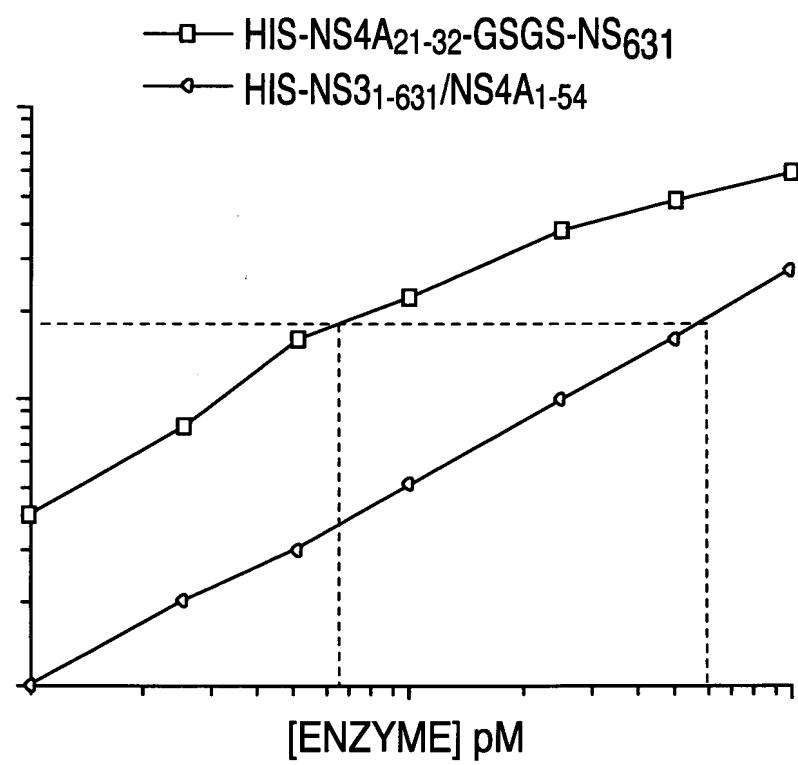


FIG. 6

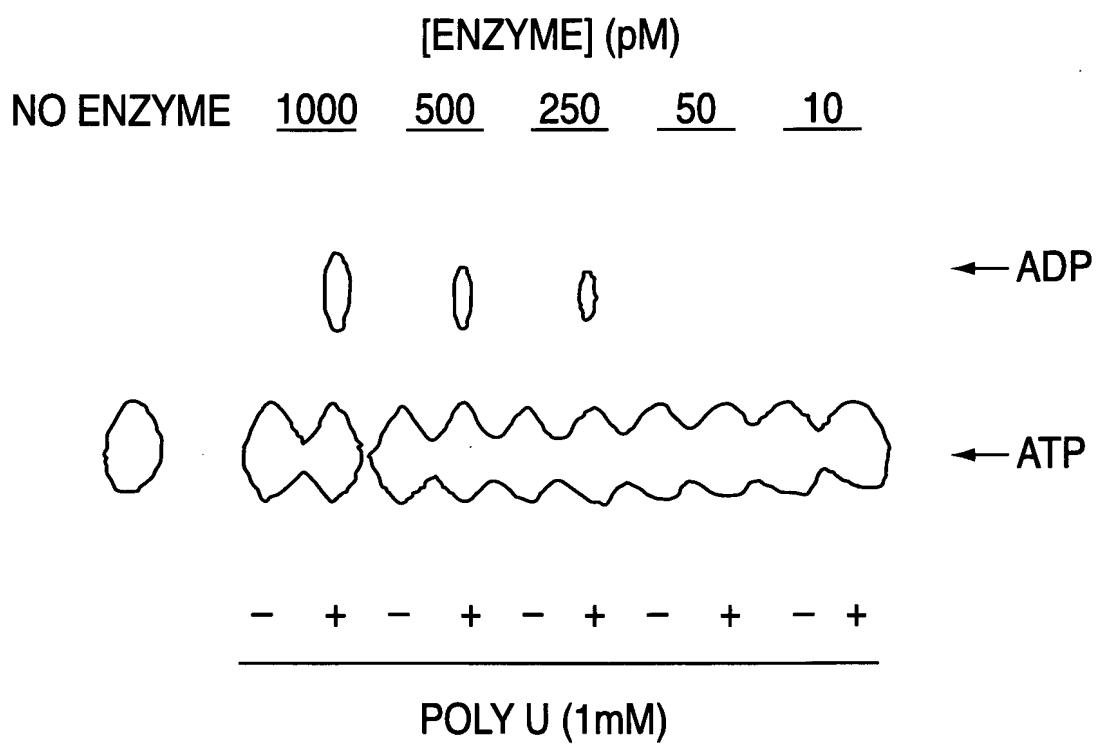


FIG. 7